

50C

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/505,328
Source: PCT
Date Processed by STIC: 01/11/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

BEST AVAILABLE COPY

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/505,328

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/505,328

TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

2 <110> APPLICANT: Korea Advanced Institute of Science and Technology
 4 <120> TITLE OF INVENTION: CONSTRUCTION OF NOVEL STRAINS CONTAINING MINIMIZING
 5 GENOME BY Tn5-COUPLED Cre/loxP EXCISION SYSTEM
 7 <130> FILE REFERENCE: 02730.0020.PCUS00
 9 <140> CURRENT APPLICATION NUMBER: 10/505,328
 C--> 11 <141> CURRENT FILING DATE: 2004-08-23
 11 <150> PRIOR APPLICATION NUMBER: PCT/KR02/02033
 12 <151> PRIOR FILING DATE: 2002-10-31
 14 <150> PRIOR APPLICATION NUMBER: KR 10-2002-0009647
 15 <151> PRIOR FILING DATE: 2002-02-22
 17 <160> NUMBER OF SEQ ID NOS: 13
 19 <170> SOFTWARE: KopatentIn 1.71
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 2437
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: TnKGloxP
 30 <400> SEQUENCE: 1
 31 attcaggctg cgcaactgtt gggaagggcg atcgggtgcgg gcctcttcgc tattacgcc 60
 33 gctgtctctt atacacatct caaccatcat cgatgaattc gagctcggta cccgggttga 120
 35 actgcggtatc ttgcgccgc aaaaattaaa aatgaagttt tgacgggtatc gaaccccaga 180
 37 gtcccgtcga gaagaactcg tcaagaaggc gatagaaggc gatgcgctgc gaatcgggag 240
 39 cggcgatacc gtaaagcacg aggaagcggg cagcccatc gccgccaagc tcttcagcaa 300
 41 tatcacgggt agccaacgct atgtcctgat agcgggtccgc cacaccacgc cggccacagt 360
 43 cgatgaatcc agaaaagcgg ccattttcca ccatgatatt cggcaagcag gcatcgccat 420
 45 gggtcacgac gagatcctcg ccgtcgggca tccgcgcctt gagcctggcg aacagttcgg 480
 47 ctggcgcgag cccctgatgc tcttcgtcca gatcatcctg atcgacaaga ccggcttcca 540
 49 tccgagtagc tgctcgctcg atgcgatgtt tcgcttggtg gtcgaatggg caggtagccg 600
 51 gatcaagcgt atgcagccgc cgcattgcat cagccatgat ggatactttc tcggcaggag 660
 53 caaggtgaga tgacaggaga tcctgccccg gcaactcgcc caatagcagc cagtcccttc 720
 55 ccgcttcagt gacaacgctg agcacagctg cgcaaggaac gcccgtcgtg gccagccacg 780
 57 atagccgcgc tgctcgtctc tggagttcat tcagggcacc ggacaggctg gtcttgacaa 840
 59 aaagaaccgg gcgcccctgc gctgacagcc ggaacacggc ggcacagag cagccgattg 900
 61 tctgttgtgc ccagtcatac ccgaatagcc tctccacca agcggccgga gaacctgcgt 960
 63 gcaatccatc ttgttcaatc atgcgaaacg atcctcatcc tgtctcttga tccactagat 1020
 65 tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag 1080
 67 aaaaataaac aaataggggt tccgcgcaca tttccccgaa aagtgccacc tgcacgatg 1140
 69 aattgatccg aagttcctat tctctagaaa gtataggaac ttcgaattgt cgacaagctt 1200
 71 gatctggctt atcgaaatta atacgactca ctataggag accggaattc attatttgta 1260
 73 gagctcatcc atgcatgtg taatcccagc agcagttaca aactcaagaa ggaccatgtg 1320
 75 gtcacgcttt tcgttgggat ctttcgaaaagg ggcagattgt gtcgacaggt aatggttgtc 1380
 77 tggtaaaagg acagggccat cgccaattgg agtattttgt tgataatggt ctgctagttg 1440

Does Not Comply
Corrected Diskette Needed

(pg-3, 5)

RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/505,328

TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

```

79 aacggatcca tcttcaatgt tgtggcgaat tttgaagtta gctttgattc cattcttttg 1500
81 tttgtctgcc gtgatgtata catttgtgtga gttatagttg tactcgagtt tgtgtccgag 1560
83 aatgtttcca tcttctttaa aatcaataacc ttttaactcg atacgattaa caagggatc 1620
85 accttcaaac ttgacttcag cacgcgtctt gtagttcccg tcatctttga aagatatagt 1680
87 gcgttctgt acataacctt cgggcattggc actcttgaaa aagtcattgc gtttcatatg 1740
89 atccggataa cgggaaaagc attgaacacc ataagagaaa gtagtgacaa gtgttgacca 1800
91 tggaacagggt agttttccag tagtgcaaat aaatttaagg gtaagttttc cgtatgttgc 1860
93 atcaccttca cctctccac tgacagaaaa tttgtgcccc ttaacatcac catctaattc 1920
95 aacaagaatt gggacaactc cagtgaagaag ttcttctcct ttactcattt tttctaccgg 1980
97 taccggggga tcctctagag tcgacctgca ggcatgcaag cttggcgtaa tcatggtcac 2040
99 agctgtttcc tgtgtgaaat tggtatccgc tcacaattcc acacaacata cgagccggaa 2100
101 gcataaagtg taaagcctgg ggtgcctaata gagtgagcta actcacatta attgcgttgc 2160
103 gctcactgcc cgctttccag tcgggaaatc caagggcgaa ttcgagctcg gtaccgggcc 2220
105 cccctcgag ggacctata acttcgtata gcatacatta tacgaagtta tattaagggg 2280
107 tccggatcct ctagagtaga cctctagagt cgaacctgca gcatgcaagc ttcagggttg 2340
109 agatgtgtat aagagacagc tgcattaatg aatcgccaa cgcgcgggga gaggcggttt 2400
111 gcgtattggg cgctcttccg ctctctcgct cactgac 2437
114 <210> SEQ ID NO: 2
115 <211> LENGTH: 1511
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: TnCloxP
123 <400> SEQUENCE: 2
124 attcaggctg cgcaactgtt gggaagggcg atcgggtgcgg gcctcttcgc tattacgcca 60
126 gctgtctctt atacacatct caaccatcat cgatgaattc gagctcggta ccgcaaaaat 120
128 taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagttac 180
130 caatgcttaa tcagtgaggc accaataact gccttaaaaa aattacgccc cgccctgcca 240
132 ctcatcgag tactgttgta attcattaag cattctgccg acatggaagc catcacagac 300
134 ggcatgatga acctgaatcg ccagcggcat cagcaccttg tcgccttgcg tataatatat 360
136 gcccatggtg aaaacggggg cgaagaagtt gtccatattg gccacgttta aatcaaaact 420
138 ggtgaaactc acccagggat tggctgagac gaaaaacata ttctcaataa accctttagg 480
140 gaaataggcc aggttttcac cgtaacacgc cacatcttgc gaatatatgt gtagaaactg 540
142 ccggaaatcg tcgtggtatt cactccagag cgatgaaaac gtttcagttt gctcatggaa 600
144 aacggtgtaa caaggtgaa cactatccca tatcaccagc tcaccgtctt tcattgccat 660
146 acggaatttc ggatgagcat tcatcaggcg ggcaagaatg tgaataaagg ccggataaaa 720
148 cttgtgctta ttttcttta cggctcttta aaaggccgta atatccagct gaacggctctg 780
150 gttataggta cattgagcaa ctgactgaaa tgctcaaaa tgttctttac gatgccattg 840
152 ggatatatca acggtggtat atccagtgat tttttctcc attttagctt ccttagctcc 900
154 tgaaaatctc gataactcaa aaaatacgcc cggtagtgat cttatttcat tatggtgaaa 960
156 gttggaacct cttacgtgcc gatcaacgtc tcattttcgc caaaagttgg cccagggtct 1020
158 cccggtatca acaggacac caggatttat ttattctgcg aagtgatctt ccgtcacagg 1080
160 tatttattcg gcgcaaagtg cgtcgggtga tgctgccaac ttactgattt agtgatgat 1140
162 ggtgtttttg aggtgctcca gtggcttctg tttctatcag catcgatgaa ttgatccgaa 1200
164 gttcctattc tctagaaagt ataggaactt cgaattgtcg acaagcttga tctggcttat 1260
166 cgaaattaat acgactcact ataggagagc cggaattcga gctcggtagc gggccccccc 1320
168 tcgagggacc taataacttc gtatagcata cattatacga agttatatta agatcctcta 1380
170 gagtcgacct gcaggcatgc aagcttcagg gttgagatgt gtataagaga cagctgcatt 1440
172 aatgaatcgg ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttctc 1500

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/505,328

DATE: 01/11/2006

TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

174 cgctcactga c 1511

177 <210> SEQ ID NO: 3

178 <211> LENGTH: 19

179 <212> TYPE: DNA

180 <213> ORGANISM: Artificial Sequence

182 <220> FEATURE:

183 <223> OTHER INFORMATION: OE sequence

186 <400> SEQUENCE: 3

187 ctgtctctta tacacatct

190 <210> SEQ ID NO: 4

191 <211> LENGTH: 34

192 <212> TYPE: DNA

193 <213> ORGANISM: Artificial Sequence

195 <220> FEATURE:

196 <223> OTHER INFORMATION: loxP site

199 <400> SEQUENCE: 4

200 ataacttcgt atagcatata ttatacgaag ttat 34

203 <210> SEQ ID NO: 5

204 <211> LENGTH: 996

205 <212> TYPE: DNA

206 <213> ORGANISM: Artificial Sequence

208 <220> FEATURE:

209 <223> OTHER INFORMATION: KmR gene

212 <400> SEQUENCE: 5

213 gcaaaaatta aaaatgaagt tttgacggta tcgaacccca gaggccgct cagaagaact 60

215 cgtaagaag gcgtagaag gcgatgcgct gcgaatcggg agcggcgata ccgtaaagca 120

217 cgaggaagcg gtcagcccat tcgccgcca gctcttcagc aatatcacgg gtagccaacg 180

219 ctatgtcctg atagcgggcc gccacaccca gccggccaca gtcgatgaat ccagaaaagc 240

221 ggccattttc caccatgata ttcggcaagc aggcacgccc atgggtcacg acgagatcct 300

223 cgccgctcggg catccgcgcc ttgagcctgg cgaacagttc ggctggcgcg agcccctgat 360

225 gctcttcgtc cagatcatcc tgatcgacaa gaccggcttc catccgagta cgtgctcgct 420

227 cgatgcgatg tttcgcttgg tggtcgaatg ggcaggtagc cggatcaagc gtatgcagcc 480

229 gccgcattgc atcagccatg atggatactt tctcggcagg agcaaggtga gatgacagga 540

231 gatcctgccc cggcacttcg cccaatagca gccagtcctt tcccgttca gtgacaacgt 600

233 cgagcacagc tgcgcaagga acgcccgtcg tggccagcca cgatagccgc gctgcctcgt 660

235 cttggagttc attcagggca ccggacaggt cggctctgac aaaaagaacc gggcgcccct 720

237 gcgctgacag ccggaacacg gcggcatcag agcagccgat tgtctgttgt gccagtcac 780

239 agccgaatag cctctccacc caagcggccg gagaacctgc gtgcaatcca tcttggtcaa 840

241 tcatgcgaaa cgatcctcat cctgtctctt gatccactag attattgaag catttatcag 900

243 gggtattgtc tcatgagcgg atacatatctt gaatgtattt agaaaaataa acaaataggg 960

245 gttccgcgca catttccccg aaaagtgcc cctgca 996

248 <210> SEQ ID NO: 6

249 <211> LENGTH: 947

250 <212> TYPE: DNA

251 <213> ORGANISM: Artificial Sequence

253 <220> FEATURE:

254 <223> OTHER INFORMATION: GFP gene

257 <400> SEQUENCE: 6

258 attatttgta gagctcatcc atgccatgtg taatcccagc agcagttaca aactcaagaa 60

Insufficient Explanation.
What is the Source of
Genetic Material. Pls see
Item # 11 on Serial
Summary
Sheet.

RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/505,328

TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

```

260 ggaccatgtg gtcacgcttt tcgttgggat ctttcgaaag ggcagattgt gtcgacaggt      120
262 aatgggttgtc tggtaaaagg acagggccat cgccaattgg agtatattgt tgataatggg      180
264 ctgctagtgtg aacggatcca tcttcaatgt tgtggcgaat tttgaagtta gctttgattc      240
266 cattcttttg tttgtctgcc gtgatgtata catttgtgtga gttatagttg tactcgagtt      300
268 tgtgtccgag aatgtttcca tcttctttaa aatcaatacc ttttaactcg atacgattaa      360
270 caagggatc accttcaaac ttgacttcag cacgcgtctt gtagttcccg tcatctttga      420
272 aagatatagt gcgttctctgt acataacctt cgggcatggc actcttgaaa agtcatgcc      480
274 gtttcatatg atccggataa cgggaaaagc attgaacacc ataagagaaa gtagtgacaa      540
276 gtgttggcca tggaaacagg agttttccag tagtgcaaat aaatttaagg gtaagttttc      600
278 cgtatgttgc atcaccttca ccctctccac tgacagaaaa tttgtgcca ttaacatcac      660
280 catctaattc aacaagaatt gggacaactc cagtgaagaa ttcttctcct ttactcattt      720
282 tttctaccgg taccggggga tctctagag tcgacctgca ggcatgcaag cttggcgtaa      780
284 tcatggtcac agctgtttcc tgtgtgaaat tggtatccgc tcacaattcc acacaacata      840
286 cgagccggaa gcataaagt taaagcctgg ggtgcctaag gagtgagcta actcacatta      900
288 attgcgttgc gctcactgcc cgctttccag tcgggaaatc caagggc      947

```

291 <210> SEQ ID NO: 7

292 <211> LENGTH: 1069

293 <212> TYPE: DNA

294 <213> ORGANISM: Artificial Sequence

296 <220> FEATURE:

297 <223> OTHER INFORMATION: CmR gene

300 <400> SEQUENCE: 7

```

301 gcaaaaatta aaaatgaagt tttaaatcaa tctaaagtat atatgagtaa acttgggtctg      60
303 acagttacca atgcttaatc agtgaggcac caataactgc cttaaaaaaa ttacgccccg      120
305 ccctgccact catcgagta ctgttgtaat tcatgaagca ttctgccgac atggaagcca      180
307 tcacagacgg catgatgaac ctgaatcgcc agcggcatca gcacctgtc gccttgcgta      240
309 taatatttgc ccatggtgaa aacggggggc aagaagttgt ccatattggc cacgtttaaa      300
311 tcaaaactgg tgaaactcac ccagggattg gctgagacga aaaacatatt ctcaataaac      360
313 ccttttaggga aataggccag gttttcaccc taacacgcca catcttgcca atatatgtgt      420
315 agaaactgcc ggaaatcgtc gtggtattca ctccagagcg atgaaaacgt ttcagtttgc      480
317 tcatggaaaa cgggtgaaca aggtgaaca ctatcccata tcaccagctc accgtctttc      540
319 attgccatac ggaatttcgg atgagcattc atcaggcggg caagaatgtg aataaaggcc      600
321 ggataaaact tgtgcttatt tttctttacg gtctttaaaa aggcgtaat atccagctga      660
323 acgggtctgg tataggtaca ttgagcaact gactgaaatg cctcaaaatg ttctttacga      720
325 tgccattggg atatatcaac ggtggtatat ccagtgattt ttttctccat tttagcttcc      780
327 ttagctcctg aaaatctcga taactcaaaa aatacgcccc gtagtgatct tatttcatta      840
329 tggtgaaaagt tggaaacctc tacgtgccga tcaacgtctc attttcgcca aaagttggcc      900
331 cagggtctcc cggtatcaac agggacacca ggatttattt attctgcgaa gtgatcttcc      960
333 gtcacaggta tttattcggc gcaaagtgcg tcgggtgatg ctgccaaact actgatttag      1020
335 tgtatgatgg tgtttttgag gtgctccagt ggcttctgtt tctatcagc      1069

```

338 <210> SEQ ID NO: 8

339 <211> LENGTH: 19

340 <212> TYPE: DNA

341 <213> ORGANISM: Artificial Sequence

343 <220> FEATURE:

344 <223> OTHER INFORMATION: primer-pMODFP-1

347 <400> SEQUENCE: 8

348 attcaggctg cgcaactgt

19

351 <210> SEQ ID NO: 9

RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/505,328

TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

352 <211> LENGTH: 22
 353 <212> TYPE: DNA
 354 <213> ORGANISM: Artificial Sequence
 356 <220> FEATURE:
 357 <223> OTHER INFORMATION: primer-pMODRP-1
 360 <400> SEQUENCE: 9
 361 tcagtgcgcg aggaagcgga ag 22
 364 <210> SEQ ID NO: 10
 365 <211> LENGTH: 28
 366 <212> TYPE: DNA
 367 <213> ORGANISM: Artificial Sequence
 369 <220> FEATURE:
 370 <223> OTHER INFORMATION: primer-Tn5Ext
 373 <400> SEQUENCE: 10
 374 agcatacatt atacgaagtt atattaag 28
 377 <210> SEQ ID NO: 11
 378 <211> LENGTH: 35
 379 <212> TYPE: DNA
 380 <213> ORGANISM: Artificial Sequence
 382 <220> FEATURE:
 383 <223> OTHER INFORMATION: primer-Arb1
 386 <400> SEQUENCE: 11
 W--> 387 ttgagcgata gacgtacgat nnnnnnnnnn gatat 35
 390 <210> SEQ ID NO: 12
 391 <211> LENGTH: 20
 392 <212> TYPE: DNA
 393 <213> ORGANISM: Artificial Sequence
 395 <220> FEATURE:
 396 <223> OTHER INFORMATION: primer-Arb2
 399 <400> SEQUENCE: 12
 400 ttgagcgata gacgtacgat 20
 403 <210> SEQ ID NO: 13
 404 <211> LENGTH: 25
 405 <212> TYPE: DNA
 406 <213> ORGANISM: Artificial Sequence
 408 <220> FEATURE:
 409 <223> OTHER INFORMATION: primer-Tn5Int
 412 <400> SEQUENCE: 13
 413 tcgacctgca ggcattgcaag cttca 25

PLS Explain
 the n locations.
 See page 7 for
 Error explanation.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/505,328

DATE: 01/11/2006
TIME: 13:11:52

Input Set : A:\Sequence.TXT
Output Set: N:\CRF4\01112006\J505328.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 21,22,23,24,25,26,27,28,29,30

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4

VARIABLE LOCATION SUMMARY

DATE: 01/11/2006

PATENT APPLICATION: US/10/505,328

TIME: 13:11:52

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Error Explanation

Seq#:11; N Pos. 21,22,23,24,25,26,27,28,29,30

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/505,328

DATE: 01/11/2006

TIME: 13:11:52

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:387 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:11
L:387 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.